MCF 3M

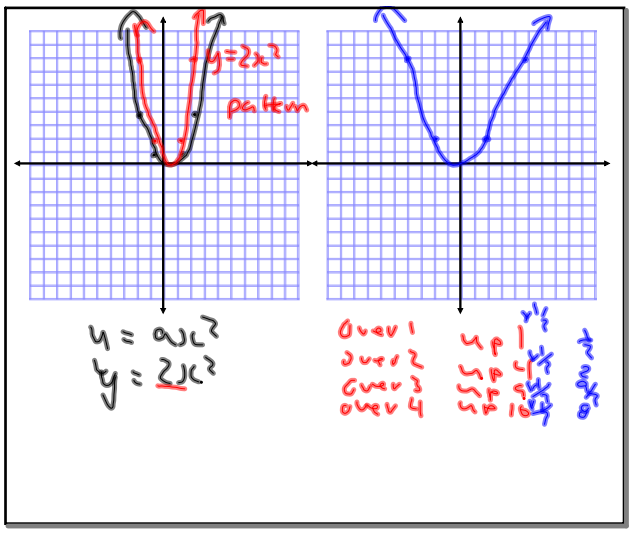
Review of Key Skills

Recognizing Graphs — Test
Transformations — Thurs.
Expansion
Factoring
Identifying the Zeros/Roots
Finding Vertex Form - Completing the
Finding Standard Form Square

p186 q 3-7, 9, 11-18
p226 1, 2, 3, 4 & 5

p254-255 q 1-10

Mar 10-8:12 AM



Mar 11-10:12 AM

$f(x) = -4x^2 - 8x + 12$

$f'(x) = -4(x^2 + 2x) + 12$ partial factor

$f(x) = -4(x^2 + 2x + 1 - 1) + 12$ $\left(\frac{b}{2}\right)^2$

$f(x) = -4[(x+1)^2 - 1] + 12$

$f(x) = -4(x+1)^2 + 4 + 12$

$f(x) = -4(x+1)^2 + 16$ [-1, 16]

Mar 11-9:43 AM

$f(x) = x^2 + 2x - 35$ factored

$f(x) = x^2 + 7x - 5x - 35$ zeros

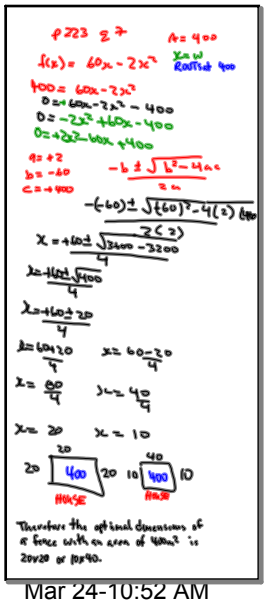
$f(x) = x(x+7) - 5(x+7)$

$= (x+7)(x-5)$

$s = -7 \quad t = +5$

A | M
-35
5 + 7

Mar 11-10:07 AM



Mar 24-10:52 AM

$f(x) = 2(x+2)^2 - 7$

$D\{x \in R\}$

$R = \{f(x) \in R \mid f(x) \geq -2\}$

$f(x) = -3(x+3)^2 - 2$

Mar 24-10:57 AM

#7

Sally

$h(t) = -5t^2 + 10t$

t = s

$h(t)$ = m

$h(t) = -5(t^2 - 2t)$

$h(t) = -5(t^2 - 2t + 1 - 1)$

$h(t) = -5[(t-1)^2 - 1]$

$h(t) = -5(t-1)^2 + 5$

(1, 5)

Dangerous Ball

1m

The ball reaches a maximum height of 5m at 1 sec. Therefore it is a dangerous ball.

Nov 2-9:39 AM

p 120-121 q. 11, 12, 15,16& 18

p184 q. 1-10

Nov 2-8:39 AM